

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application of :  
Kazumi SAKUMOTO :  
Serial No. 08/493,979 : Group Art Unit - 2107  
Filed: June 23, 1995 : Examiner - Vit W. Miska  
For: ELECTRONIC WATCH :  
WITH PAGER : Docket No. S004-2991(RE)

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COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SUPPLEMENTAL REISSUE DECLARATION

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OCT 31 1997

GROUP 2100

I, Kazumi SAKUMOTO, hereby declare:

1. That this supplemental reissue declaration is being made to supplement my earlier substitute reissue declaration dated July 8, 1996 which comprises part of Reissue Patent Application Serial No. 08/493,979.

2. That I verily believe the original patent to be wholly or partly inoperative or invalid by reason of claiming less than I had a right to claim in the original patent because original independent patent claims 1 and 3:

(a) do not cover "a received pager signal storing circuit for storing the received pager signals" other than one comprising "received call signal storing means for storing the call signal", "message storing means for storing a callers'

message signal such as a telephone number" and "caller identifying signal storing means for storing a callers' identifying signal";

(b) do not cover "an analog display unit" other than one comprising "hand position converting means for converting an output signal of said analog display switching means to hand position data for display", "current hand position storing means for storing current hand position data now displayed", "hand stroke calculating means for calculating a stroke of a hand to be displayed on the basis of an output signal of said hand position converting means and an output signal of said current hand position storing means", "motor pulse generating means for generating a motor driving pulse on the basis of an output signal of said hand stroke calculating means", and "motor driving means for driving a motor on the basis of an output signal of said motor pulse generating means"; and

(c) do not cover "a digital display unit" other than one comprising "display element signal generating means for generating a display element driving signal on the basis of an output signal of said digital display switching means" and "a display element for displaying a digital display on the basis of an output signal of said display element driving signal generating means".

3. To correct the error in claiming less than I had a right to claim in the original patent as set forth above in paragraph 2, new claims 7-11 have been added which differ from original patent claims 1 and 3 as follows:

(a) Independent claim 7 comprises a revised version of patent claims 1 and 3 and recites "a received pager signal storing circuit for storing the received pager signals" instead of the language of claims 1 and 3 "received call signal storing means for storing the call signal", "message storing means for storing a callers' message signal such as a telephone number" and "caller identifying signal storing means for storing a callers' identifying signal". Claim 7 further differs from patent claims 1 and 3 in that it recites "an analog display unit including a hand position converting circuit for converting the output signal of the analog display switching circuit to hand position data for display" instead of the language of claims 1 and 3 "hand position converting means for converting an output signal of said analog display switching means to hand position data for display", "current hand position storing means for storing current hand position data now displayed", "hand stroke calculating means for calculating a stroke of a hand to be displayed on the basis of an output signal of said hand position converting means and an output signal of said current hand position storing means", "motor pulse generating means for generating a motor driving

pulse on the basis of an output signal of said hand stroke calculating means", and "motor driving means for driving a motor on the basis of an output signal of said motor pulse generating means". Claim 7 further differs from patent claims 1 and 3 in that it recites "a digital display unit including a display element for displaying a digital display on the basis of an output signal of the digital display switching circuit" instead of the language of claims 1 and 3 "display element signal generating means for generating a display element driving signal on the basis of an output signal of said digital display element driving signal generating means" and "a display element for displaying a digital display on the basis of an output signal of said display element driving signal generating means". Claim 7 further differs from patent claim 1 in that it recites "a stored signal selecting circuit responsive to an output of the external inputting element for selecting a stored signal thereof" instead of the language of claims 1 and 3 "stored signal selecting means responsive to an output signal of said external inputting means, for outputting the stored signals to said caller identifying signal storing means and said message storing means".

(b) Claim 8 depends on independent claim 7 and differs from original patent claims 1 and 3 in the same manner as claim 7 as set forth above in paragraph 3(a). Claim 8 further differs from original patent claims 1 and 3 in that it

additionally includes the recitations that "the pager signals received by the high frequency receiving circuit comprise at least a call signal, a callers' message signal or a callers' identifying signal" and that "the received pager signal storing circuit comprises a received call signal storing circuit for storing the call signal, a message storing circuit for storing the callers' message signal, and an identifying signal storing circuit for storing the callers' identifying signal", thereby reciting a combination which is not recited in either of original patent claims 1 and 3.

(c) Claim 9 depends on dependent claim 8 and differs from original patent claims 1 and 3 in the same manner as claims 7 and 8 as set forth above in paragraphs 3(a) and 3(b). Claim 9 further differs from original patent claims 1 and 3 in that it additionally includes the recitations that "the analog display switching circuit switches an output signal of the identifying signal storing circuit of the pager signal storing circuit" and that "the analog display unit further comprises a current hand position storing circuit for storing current hand position data, a hand stroke calculating circuit for calculating a stroke of a hand to be displayed on the basis of an output signal of the hand position converting circuit and an output signal of the current hand position storing circuit, a motor pulse generating circuit for generating a motor driving pulse on the basis of an output

signal of the hand stroke calculating circuit, and a motor driving circuit for driving a motor on the basis of an output signal of the motor pulse generating circuit", thereby reciting a combination which is not recited in either of original patent claims 1 and 3.

(d) Claim 10 depends on dependent claim 8 and differs from original patent claims 1 and 3 in the same manner as claims 7 and 8 as set forth above in paragraphs 3(a) and 3(b). Claim 10 further differs from original patent claims 1 and 3 in that it additionally includes the recitations that "the digital display switching circuit switches an output signal of the message storing circuit of the received pager signal storing circuit" and that "the digital display unit further comprises a display element driving signal generating circuit for generating a display element driving signal on the basis of an output signal of the digital display switching circuit; and wherein the display element displays a digital display on the basis of an output signal of the display element driving signal generating circuit", thereby reciting a combination which is not recited in either of original patent claims 1 and 3.

(e) Claim 11 depends on dependent claim 8 and differs from the original patent claims 1 and 3 in the same manner as claims 7 and 8 as set forth above in paragraphs 3(a)

and 3(b). Claim 11 further differs from original patent claims 1 and 3 in that it additionally includes the recitation that the electronic watch provided with a pager further comprises "a reception time storing circuit for storing a reception time on the basis of an output signal of the time measuring circuit, an output signal of the call number comparing circuit, and an output signal of the stored signal selecting circuit", thereby reciting a combination which is not recited in either of original patent claims 1 and 3.

4. That I verily believe the original patent to be wholly or partly inoperative or invalid by reason of claiming less than I had a right to claim in the original patent because:

(a) original independent patent claims 2 and 4 do not cover "a received pager signal storing circuit for storing the received pager signals" other than one comprising "received call signal storing means for storing the call signal", "message storing means for storing a callers' message signal such as a telephone number" and "caller identifying signal storing means for storing a callers' identifying signal";

(b) original independent patent claims 2 and 4 do not cover "an analog display unit" other than one comprising "hand position converting means for converting an output signal of said time measuring means to hand position data for

display", "current hand position storing means for storing current hand position data now displayed", "hand stroke calculating means for calculating a stroke of a hand to be displayed on the basis of an output signal of said hand position converting means and an output signal of said current hand position storing means", "motor pulse generating means for generating a motor driving pulse on the basis of an output signal of said hand stroke calculating means", and "motor driving means for driving a motor on the basis of an output signal of said motor pulse generating means";

(c) original independent patent claims 2 and 4 do not cover "a digital display unit" other than one comprising "display element signal generating means for generating a display element driving signal on the basis of an output signal of said digital display switching means" and "a display element for displaying a digital display on the basis of an output signal of said display element driving signal generating means";

(d) original independent patent claim 2 does not cover "a pager information analog display unit" other than one comprising "pager hand position converting means for converting an output signal of said caller identifying signal storing means to pager hand position data for display", "current pager hand position storing means for storing current pager hand position data now displayed", "pager hand stroke



calculating means for calculating a stroke of a pager hand to be displayed on the basis of an output signal of said pager hand position converting means and an output signal of said current pager hand position storing means", "pager motor pulse generating means for generating a pager motor driving pulse on the basis of an output signal of said pager hand stroke calculating means" and "pager motor driving means for driving a pager motor on the basis of an output signal of said pager motor pulse forming means"; and

(e) original independent patent claim 4 does not cover "a pager information analog display unit" other than one comprising "pager hand position converting means for converting an output signal of said pager display switching means to pager hand position data for display", "current pager hand position storing means for storing current pager hand position data now displayed", "pager hand stroke calculating means for calculating a stroke of a pager hand to be displayed on the basis of an output signal of said pager hand position converting means and an output signal of said current pager hand position storing means", "pager motor pulse generating means for generating a pager motor driving pulse on the basis of an output signal of said pager hand stroke calculating means" and "pager motor driving means for driving a pager motor on the basis of an output signal of said pager motor pulse forming means".

5. To correct the error in claiming less than I had a right to claim in the original patent as set forth above in paragraph 4, new claims 12-19 have been added which differ from original patent claims 2 and 4 as follows:

(a) Independent claim 12 comprises a revised version of patent claims 2 and 4 and recites "a received pager signal storing circuit for storing the received pager signals" instead of the language of claims 2 and 4 "received call signal storing means for storing the call signal", "message storing means for storing a callers' message signal such as a telephone number" and "caller identifying signal storing means for storing a callers' identifying signal". Claim 12 further differs from patent claims 2 and 4 in that it recites "an analog display unit including a hand position converting circuit for converting the output signal of the time measuring circuit to hand position data for display" instead of the language of claims 2 and 4 "hand position converting means for converting an output signal of said analog display switching means to hand position data for display", "current hand position storing means for storing current hand position data now displayed", "hand stroke calculating means for calculating a stroke of a hand to be displayed on the basis of an output signal of said hand position converting means and an output signal of said current hand position storing means", "motor pulse generating means for generating a motor driving pulse on

the basis of an output signal of said hand stroke calculating means", and "motor driving means for driving a motor on the basis of an output signal of said motor pulse generating means". Claim 12 further differs from patent claims 2 and 4 in that it recites "a digital display unit including a display element for displaying a digital display on the basis of an output signal of the digital display switching circuit" instead of the language of claims 2 and 4 "display element signal generating means for generating a display element driving signal on the basis of an output signal of said digital display element driving signal generating means" and "a display element for displaying a digital display on the basis of an output signal of said display element driving signal generating means". Claim 12 further differs from patent claim 2 in that it recites "a stored signal selecting circuit responsive to an output of the external inputting element for selecting a stored signal thereof" instead of the language of claim 2 "stored signal selecting means responsive to an output signal of said external inputting means, for outputting the stored signals to said caller identifying signal storing means and said message storing means". Claim 12 further differs from patent claims 2 and 4 in that it recites "a pager information analog display unit for displaying the pager information stored in the received pager signal storing circuit" instead of the language of claims 2

and 4 "pager hand position converting means for converting an output signal of said caller identifying signal storing means to pager hand position data for display" (claim 2) or "pager hand position converting means for converting an output signal of said pager display switching means to pager hand position data for display" (claim 4), "current pager hand position storing means for storing current pager hand position data now displayed", "pager hand stroke calculating means for calculating a stroke of a pager hand to be displayed on the basis of an output signal of said pager hand position converting means and an output signal of said current pager hand position storing means", "pager motor pulse generating means for generating a pager motor driving pulse on the basis of an output signal of said pager hand stroke calculating means" and "pager motor driving means for driving a pager motor on the basis of an output signal of said pager motor pulse forming means".

(b) Claim 13 depends on independent claim 12 and differs from original patent claims 2 and 4 in the same manner as claim 12 as set forth above in paragraph 5(a). Claim 13 further differs from original patent claims 2 and 4 in that it additionally includes the recitations that "the pager signals received by the high frequency receiving circuit comprise at least a call signal, a callers' message signal or a callers' identifying signal" and that "the received pager signal

storing circuit comprises a received call signal storing circuit for storing the call signal, a message storing circuit for storing the callers' message signal, and an identifying signal storing circuit for storing the callers' identifying signal", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

(c) Claim 14 depends on claim 13 and differs from the original patent claims 2 and 4 in the same manner as claims 12 and 13 as set forth above in paragraphs 5(a) and 5(b). Claim 14 further differs from original patent claims 2 and 4 in that it additionally includes the recitation that "the analog display unit further comprises a current hand position storing circuit for storing current hand position data, a hand stroke calculating circuit for calculating a stroke of a hand to be displayed on the basis of an output signal of the hand position converting circuit and an output signal of the current hand position storing circuit, a motor pulse generating circuit for generating a motor driving pulse on the basis of an output signal of the hand stroke calculating circuit, and a motor driving circuit for driving a motor on the basis of an output signal of the motor pulse generating circuit", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

(d) Claim 15 depends on claim 13 and differs from the original patent claims 2 and 4 in the same manner as

claims 12 and 13 as set forth above in paragraphs 5(a) and 5(b). Claim 15 further differs from original patent claims 2 and 4 in that it additionally includes the recitations that "the digital display switching circuit switches an output signal of the message storing circuit of the received pager signal storing circuit" and that "the digital display unit further comprises a display element driving signal generating circuit for generating a display element driving signal on the basis of an output signal of the digital display switching circuit; and wherein the display element displays a digital display on the basis of an output signal of the display element driving signal generating circuit", thereby reciting a combination which is not recited in either of the original patent claims 2 and 4.

(e) Claim 16 depends on claim 13 and differs from original patent claims 2 and 4 in the same manner as claims 12 and 13 as set forth above in paragraphs 5(a) and 5(b). Claim 16 further differs from original patent claims 2 and 4 in that it additionally includes the recitation that "the pager information analog display unit comprises a pager hand position converting circuit for converting an output signal of the identifying signal storing circuit to pager hand position data for display, a current pager hand position storing circuit for storing current pager hand position data, a pager hand stroke calculating circuit for calculating a stroke of a

pager hand to be displayed on the basis of an output signal of the pager hand position converting circuit and an output signal of the current pager hand position storing circuit, a pager motor pulse generating circuit for generating a pager motor driving pulse on the basis of an output signal of the pager hand stroke calculating circuit, and a pager motor driving circuit for driving a pager motor on the basis of an output signal of the pager motor pulse generating circuit", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

(f) Claim 17 depends on claim 13 and differs from the original patent claims 2 and 4 in the same manner as claims 12 and 13 as set forth above in paragraphs 5(a) and 5(b). Claim 17 further differs from original patent claims 2 and 4 in that it additionally includes the recitation that the electronic watch provided with a pager further comprises "a reception time storing circuit for storing a reception time on the basis of an output signal of the time measuring circuit, an output signal of the call number comparing circuit, and an output signal of the stored signal selecting circuit", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

(g) Claim 18 depends on claim 17 and differs from original patent claims 2 and 4 in the same manner as claims 12, 13 and 17 as set forth above in paragraphs 5(a), 5(b) and

5(f). Claim 18 further differs from original patent claims 2 and 4 in that it additionally includes the recitation that the electronic watch provided with a pager further comprises "a pager display switching circuit responsive to an output signal of the external inputting element for switching an output signal of the reception time storing circuit and an output signal of the identifying signal storing circuit", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

(h) Claim 19 depends on claim 18 and differs from the original patent claims 2 and 4 in the same manner as claims 12, 13, 17 and 18 as set forth above in paragraphs 5(a), 5(b), 5(f) and 5(g). Claim 19 further differs from original patent claims 2 and 4 in that it additionally includes the recitation that "the pager information analog display unit comprises a pager hand position converting circuit for converting an output signal of the pager display switching circuit to pager hand position data for display, a current pager hand position storing circuit for storing current pager hand position data now displayed, a pager hand stroke calculating circuit for calculating a stroke of a pager hand to be displayed on the basis of an output signal of the pager hand position converting circuit and an output signal of the current pager hand position storing circuit, a pager motor pulse generating circuit for generating a pager motor driving



pulse on the basis of an output signal of the pager hand stroke calculating circuit, and a pager motor driving circuit for driving a pager motor on the basis of an output signal of the pager motor pulse generating circuit", thereby reciting a combination which is not recited in either of original patent claims 2 and 4.

6. That the error in claiming less than I had a right to claim in the original patent, as set forth above in paragraphs 2 and 4, arose through lack of appreciation of all aspects of the invention at the time the original patent application was filed, and then prosecuted to issue, and, as a result, the subject matter described in paragraphs 3 and 5 above, and corresponding to claims 7-11 and 12-19, respectively, was not claimed as broadly as I had a right to claim. At the time the original patent application was filed, and then prosecuted to issue, I did not appreciate the aspects of the present invention set forth above in paragraphs 3(a) and 5(a). Consequently, I did not appreciate that original independent patent claims 1, 3 and 2, 4 included the unnecessary limitations set forth above in paragraphs 2(a) and 4(a), respectively, which unnecessary limitations have been omitted from independent claims 7 and 12. As a result of my lack of appreciation of the foregoing aspects of the present invention, at the time the original patent application was filed, and then prosecuted to issue, I also did not appreciate

that the aspects of the present invention set forth above in paragraphs 3(b)-3(e) and 5(b)-5(h), and corresponding to claims 8-11 and 13-19, respectively, were missing from the claims in the original patent.

7. That the error in claiming less than I had a right to claim in the original patent, as set forth above in paragraphs 2 and 4, was discovered by my attorney during a review of the issued patent in conjunction with the prior art of record subsequent to the filing of my substitute reissue declaration dated July 8, 1996. The substitute reissue declaration was filed in response to the Examiner's rejection of claims 1-6 in the Office Action dated January 18, 1996 of this reissue application.

8. That during review of the issued patent as set forth above in paragraph 7, my attorney recognized that I had failed to claim the invention in the breadth set forth in claims 7-19. In particular, my attorney recognized that I had not appreciated the aspects of the present invention set forth above in paragraphs 3(a) and 5(a), that original independent patent claims 1, 3 and 2, 4 recite the unnecessary limitations set forth above in paragraphs 2(a) and 4(a), respectively, and that the aspects of the present invention set forth above in paragraphs 3(b)-3(e) and 5(b)-5(h) were missing from the claims in the original patent.

9. That the aforesaid error in the claims arose entirely through inadvertence, accident or mistake and without any deceptive intent on my part, or, upon information and belief, on the part of my attorneys.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that any willful false statements or the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent resulting therefrom.

Dated: October 8, 1997

Kazumi Sakumoto  
Kazumi SAKUMOTO